






**GALLIUM ARSENIDE JUNCTION DIODE-ACTIVATED UP-CONVERTING PHOSPHOR****Patent number:** FR2044727**Publication date:** 1971-02-26**Inventor:****Applicant:** WESTERN ELECTRIC CO**Classification:****- international:** H05B33/00; G06K15/00; C09K1/00**- european:** C09K11/475B5B, C09K11/475C2, F21K2/00C, G02F2/02**Application number:** FR19700013643 19700415**Priority number(s):** US19690822847 19690416**Also published as:**

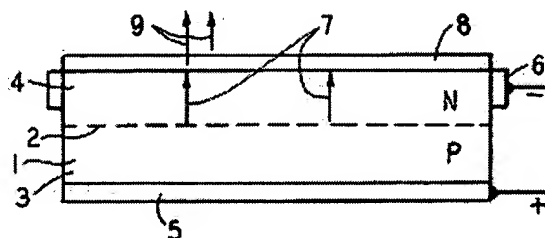
 US3659136 (A1)  
 NL7005418 (A)  
 GB1317732 (A)  
 DE2018354 (A1)  
 BE748879 (A)

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Abstract not available for FR2044727

Abstract of correspondent: **US3659136**

Electro-luminescent output in the visible spectrum results from use of a GaAs infrared-emitting diode provided with a coating of a compound having at least one each of two different anions or at least one anion vacancy in some unit cells. The compound, exemplified by the oxychlorides and fluorochlorides, contains the ion pair  $\text{Yb}^{3+}$ - $\text{Er}^{3+}$ ,  $\text{Yb}^{3+}$ - $\text{Ho}^{3+}$ ,  $\text{Yb}^{3+}$ - $\text{Tm}^{3+}$  or mixtures thereof.



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